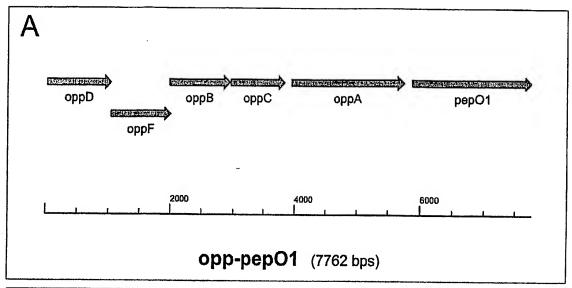
Fig. 1



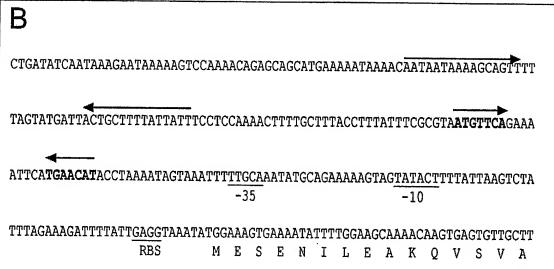


Fig. 2

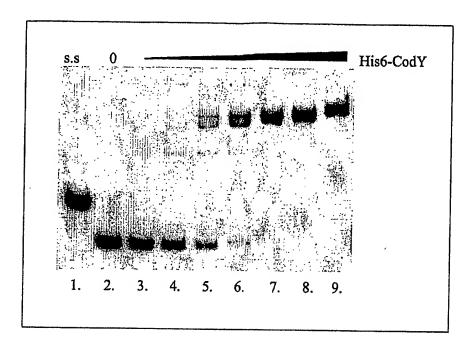
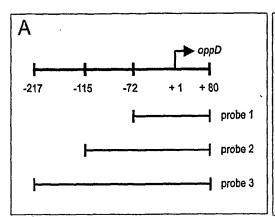
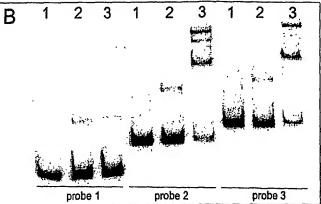


Fig. 3





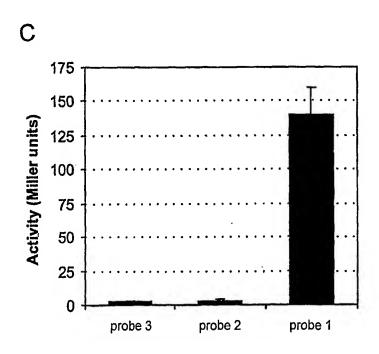


Fig. 4

A

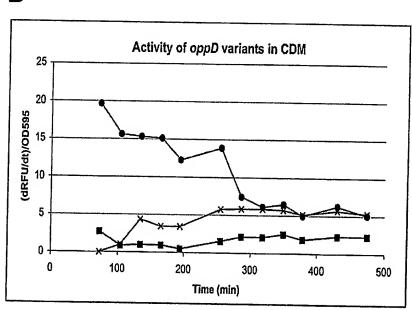
AATGTTCAGAAAATTCATGAACATAC WT

AATATTAAGAAAATTCATGAACATAC Opp15(a)

ACTGTCCGAAAATTCATGAACATAC Opp15(b)

AACTGCAGGAAAATTCATGAACATAC Opp 2

B



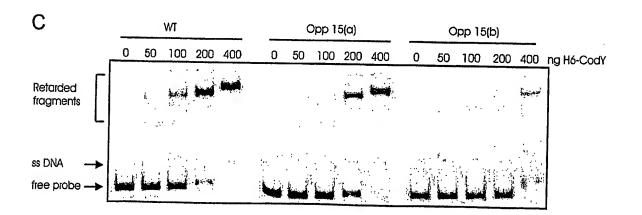


Fig. 4D

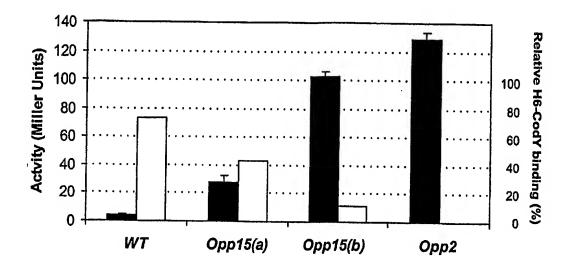


Fig. 5A

WT	CGTA	ATGTTCA	GAAAATTCA	TGAACAT	ACC
MUT2	CGTA	ATGTTC T	GAAAATTCA	TGAACAT	ACC
MUTF	CGTA	ATGTTCA	GAAAATTCA	TGGACAT	ACC
MUT4	CGTA	ATGTTCA	GAAAATTCA	TGA G CAT	ACC
MUT3	CGTA	G TGTTCA	GAAAATTCA	TGAACAT	ACC
MUT10	CGTA	ATGT C CA	GAAAATTCA	TGAACAT	ACC
MUT16	CGTA	ATGTTC G	GAAAATTCA	TGAACAC	ACC

Fig. 5B

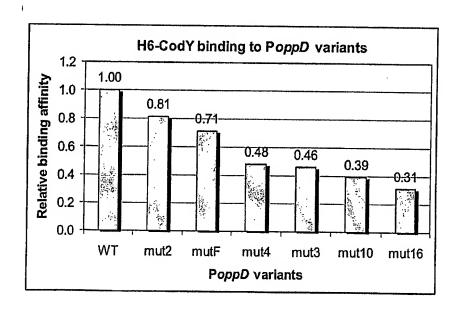


Fig. 6A

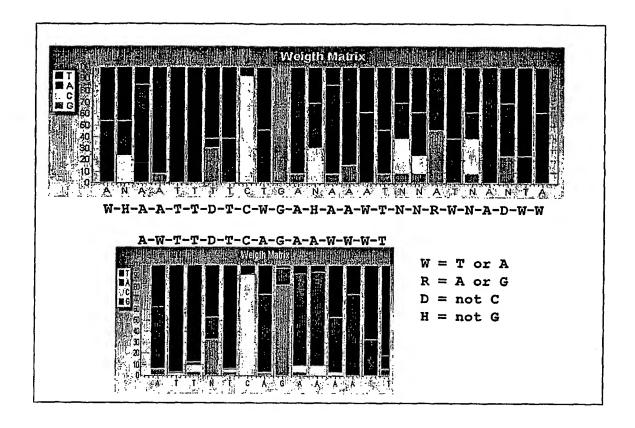
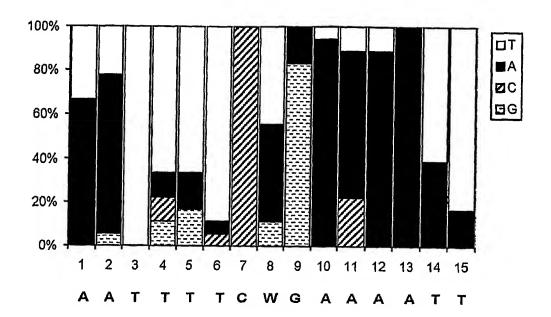


Fig. 6B



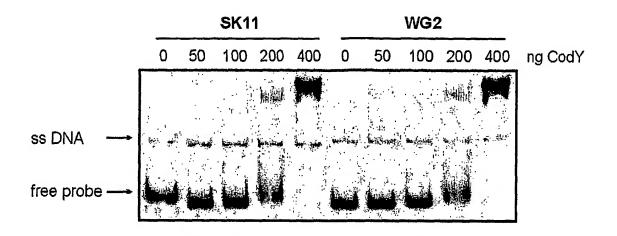
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	532e-15 - +5	4.78e-15	8.88c-17	128	133	Ш	2.76e-04	1.62e-05	-62	2.13e-03	6.73e-12 - +9	3.32e-05	85	E-20] P	E0-4	1.67e-13	_=
Combined p-value		L		734e-128	831e-137	2.04e-138	ļ	<u> </u>	3 8.78e-02	2.13	6.73	333	A 6.78e-06	1.93e-20	327e-05	431e-03	1.67	
Name	pepN(1)	oppD(1)	oppD(2)	Tarte (1)	Part Print (2)	PHP/M (3)	pepDA (1)	pepC(1)	pepX(1)	ctrA	Busa	Str	citB/gltA	arcD1	D D	D.A.	SerC	SCALE

Fig. 7

101	← prtM TGCTAAAAATTTCAAAACATCTATAGTCTGTAAACGGCTAAATAATAACGCTAAAAGTTAATTTACAGATAAAAATTAATAGAAGATTAAAATTTTCG YGCTAAAAATTTCAAAACATCTATAGTCTGTAAACGGCTAAATAATAACGCTAAAAGTTAATTTACAGATAAAAAATTAATAGAAGATTAAAATTTTCG YGCTAAAAAITTCAAAAAATTAGTCTGTAAAGGCTAAATAATAATAACGCTAAAAAGTTAATTACAGATAAAAAATTAATAGAAGATTAAAAATTTTCG YGCTAAAAAITTCAAAAACTCTATAGTCTGTAAACGCCTAAATAATAACGCTAAAAAGTTAATTACAGATAAAAAATTAATAGAAGATTAAAAATTTTAG	Wg2 SK11 E8 BGMN1-5
201	-35° TTGAAT TIGTTCTTCAATAGTATAATAATAGTATATAATATTATATA————AATATAATCTTAACTACATCCAAGCGTAGGGTTTGATTATTATGATATG AACTTAAACAAGAAGTTATCATATATTATCATATATTATATATA	Wg2
	-35° TTGAATTTGTTCTTCAATAGTATAATAATAATAATAATAATATTATAATATAATA	SK11
	-35P TTGBATTTATTCTTCAATAGTATATAATATTATATAATATA	88
	-35° TIGAATITICITCITL <u>AATAGTATATAATATATATATATATATATTATATCATACTATLATATAATAACTACATCAGCGTACATTTCATTT</u>	BGMN1-5
296 301	RBS ^P prtP → AAACTTTTGGAAAGTGGAGGATATTGGATG Wg2 AAACTTTTGGAAAGTGGAGGATATTGGATG AAACTTTTGGAAAGTGGAGGATATTGGATG AAACTTTTGGAAAGTGGAGGATATTGGATG BGMN1-5	

Fia. 8

Fig. 9



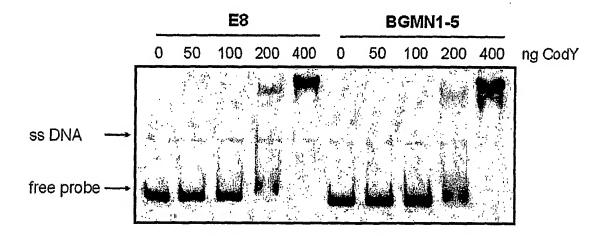


Fig. 10

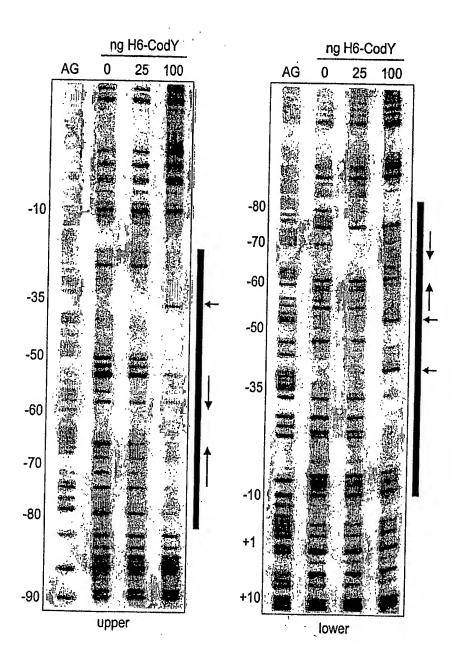


Fig. 11

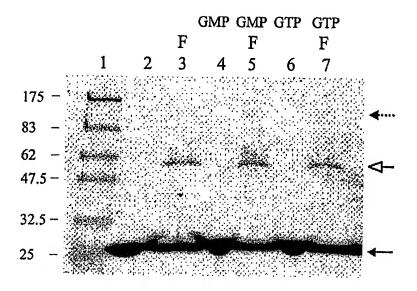


Fig. 12

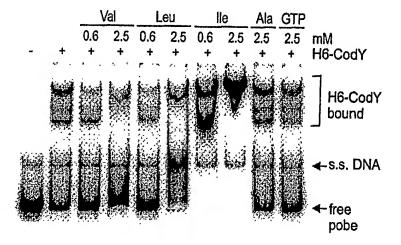
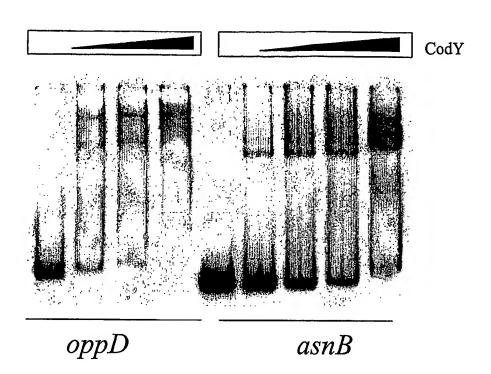
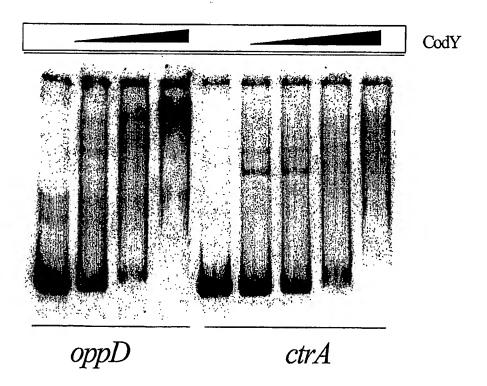


Fig. 13





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